

FIGURE 1

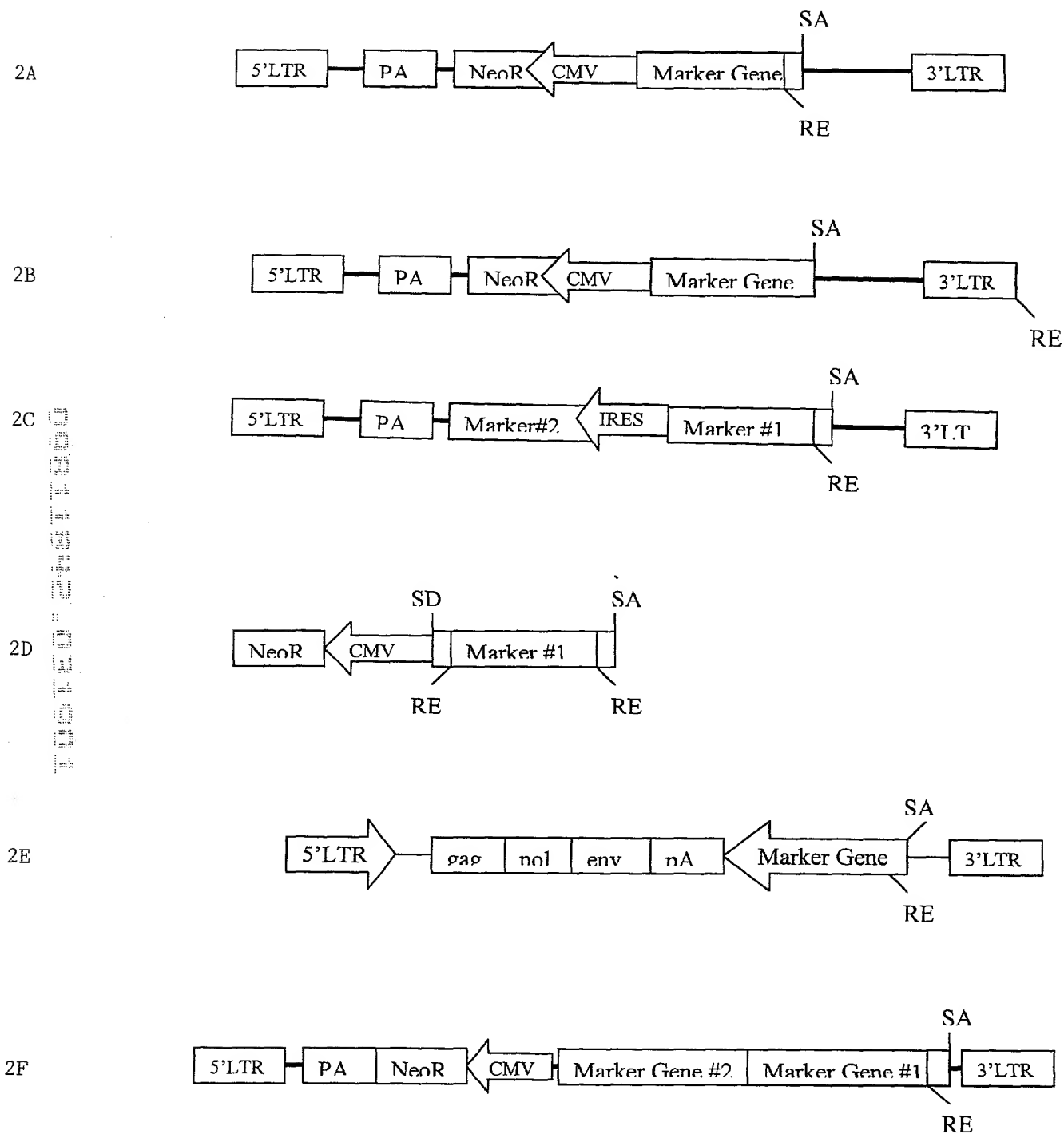


FIGURE 2

Genomavir Technology

P04465US1 (NewLink Genetics)
 LINK, et al.
 METHODS AND COMPOSITIONS FOR
 ELUCIDATING RELATIVE PROTEIN
 EXPRESSION LEVELS IN CELLS
 Sheet _3_ of 23

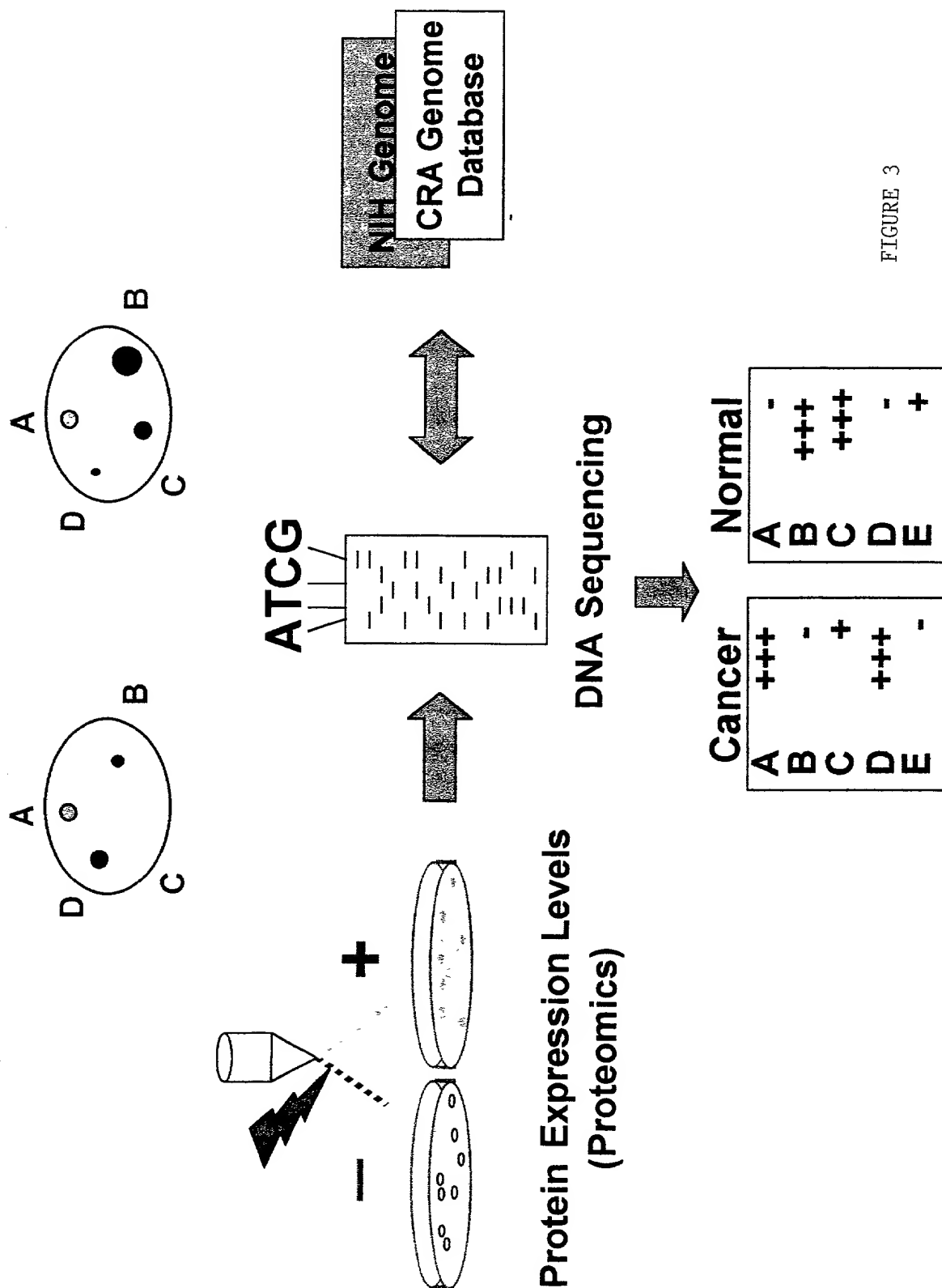
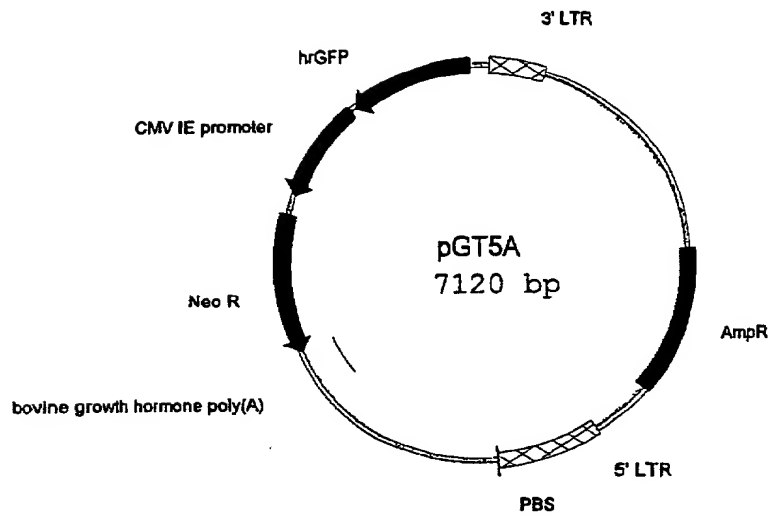


FIGURE 3

A



B

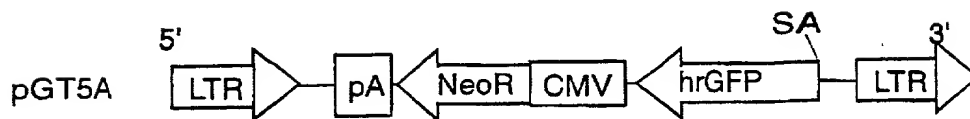


FIGURE 4

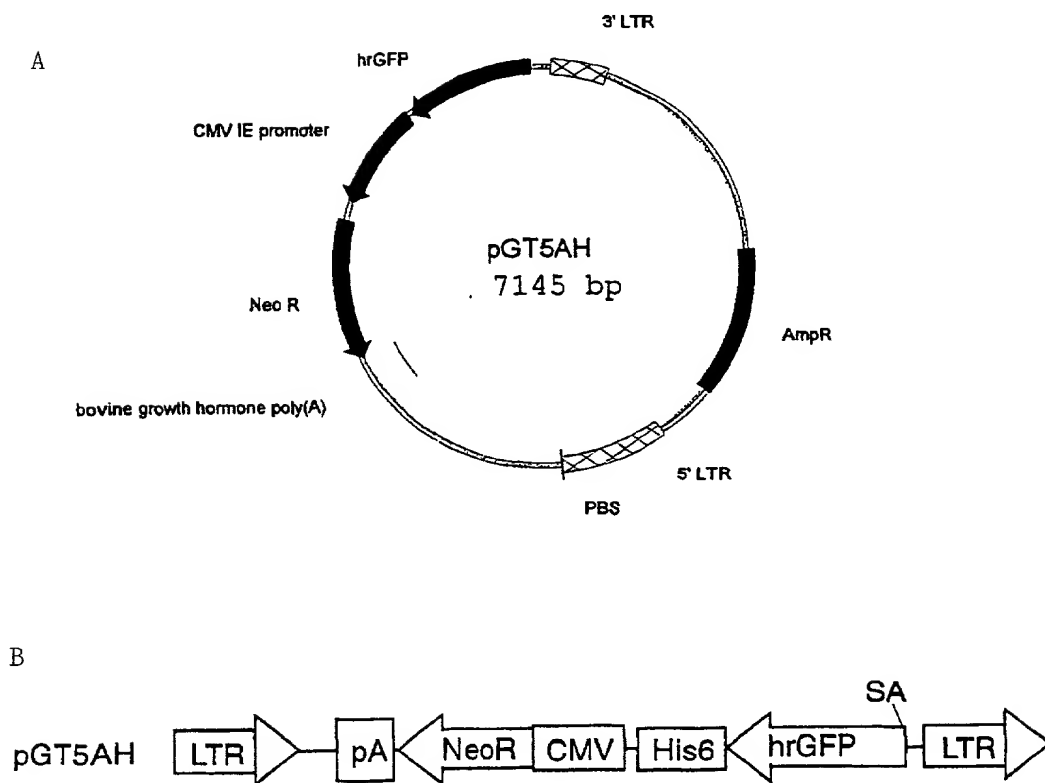
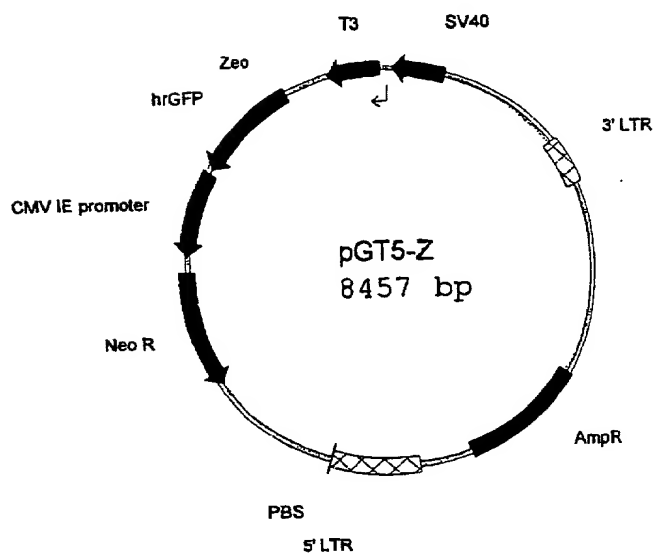


FIGURE 5

A



B

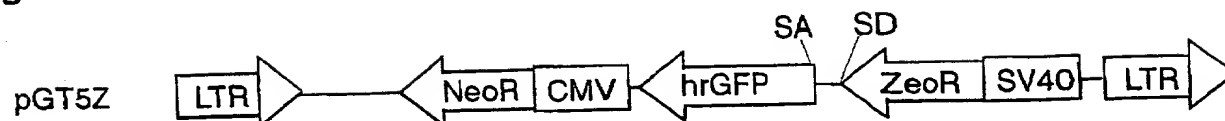
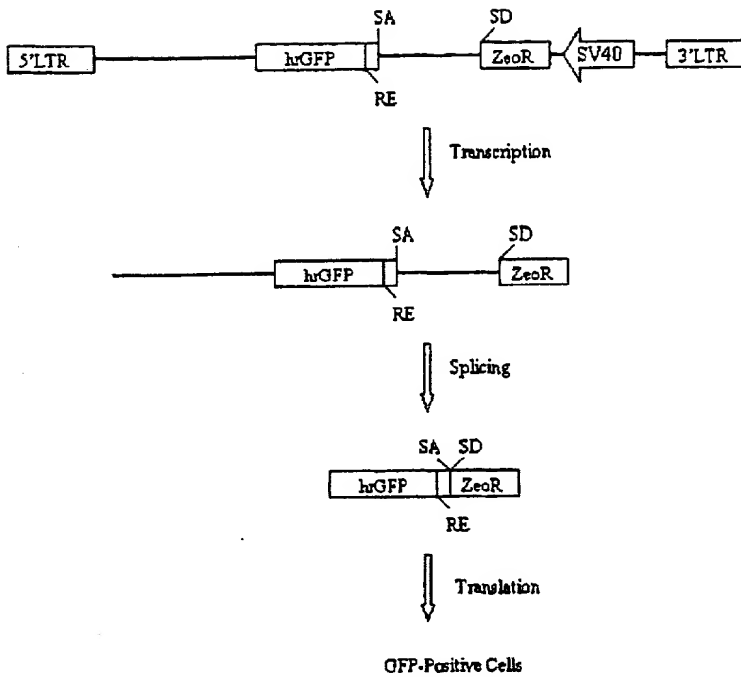


FIGURE 6

A.



B.

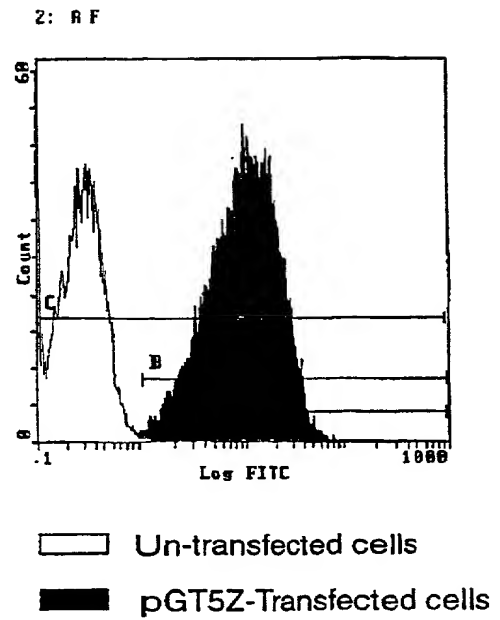
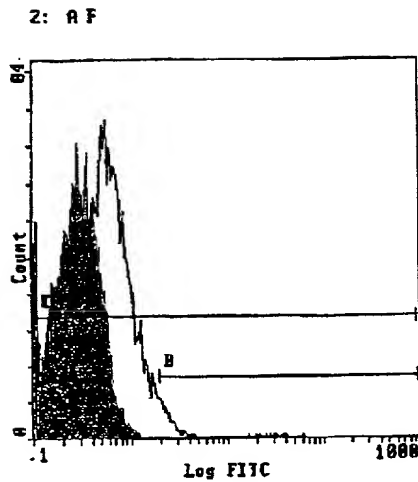


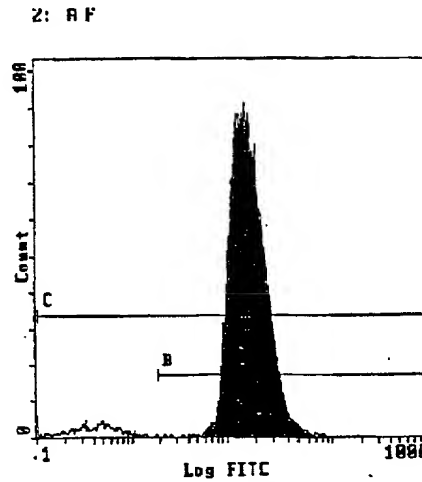
FIGURE 7

A



S:

B



GFP (-) population



GFP (+) population



PA317 without pGT5A transfection

FIGURE 8

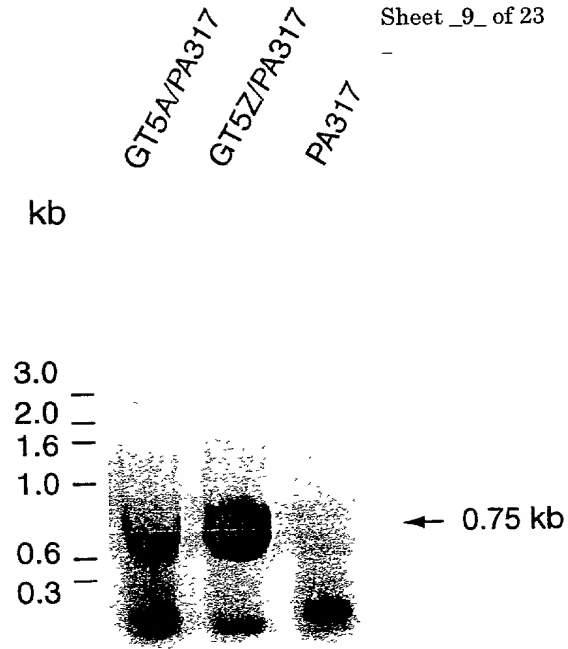
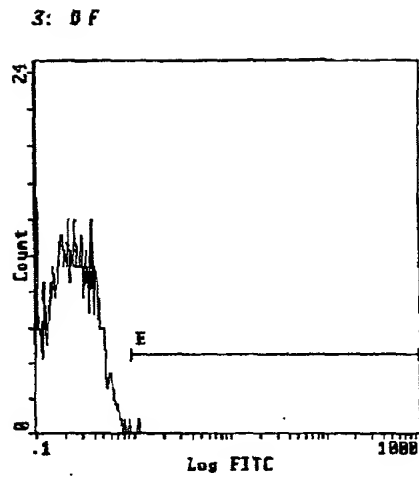


FIGURE 9

A



B

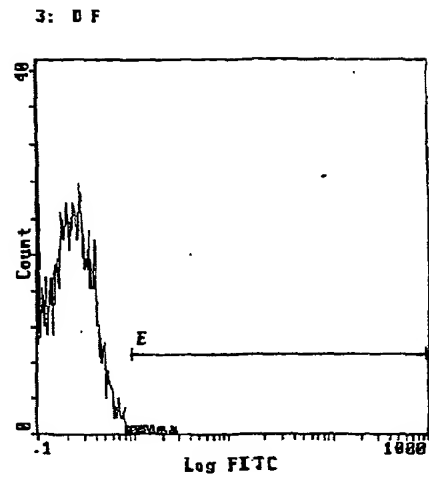
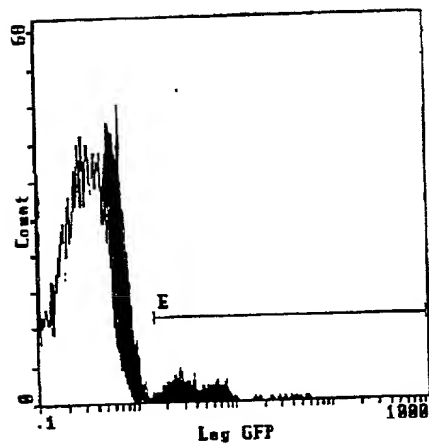


FIGURE 10



□ Un-transduced NIH3T3 cells
■ GT5A-transduced NIH3T3 cells

FIGURE 11

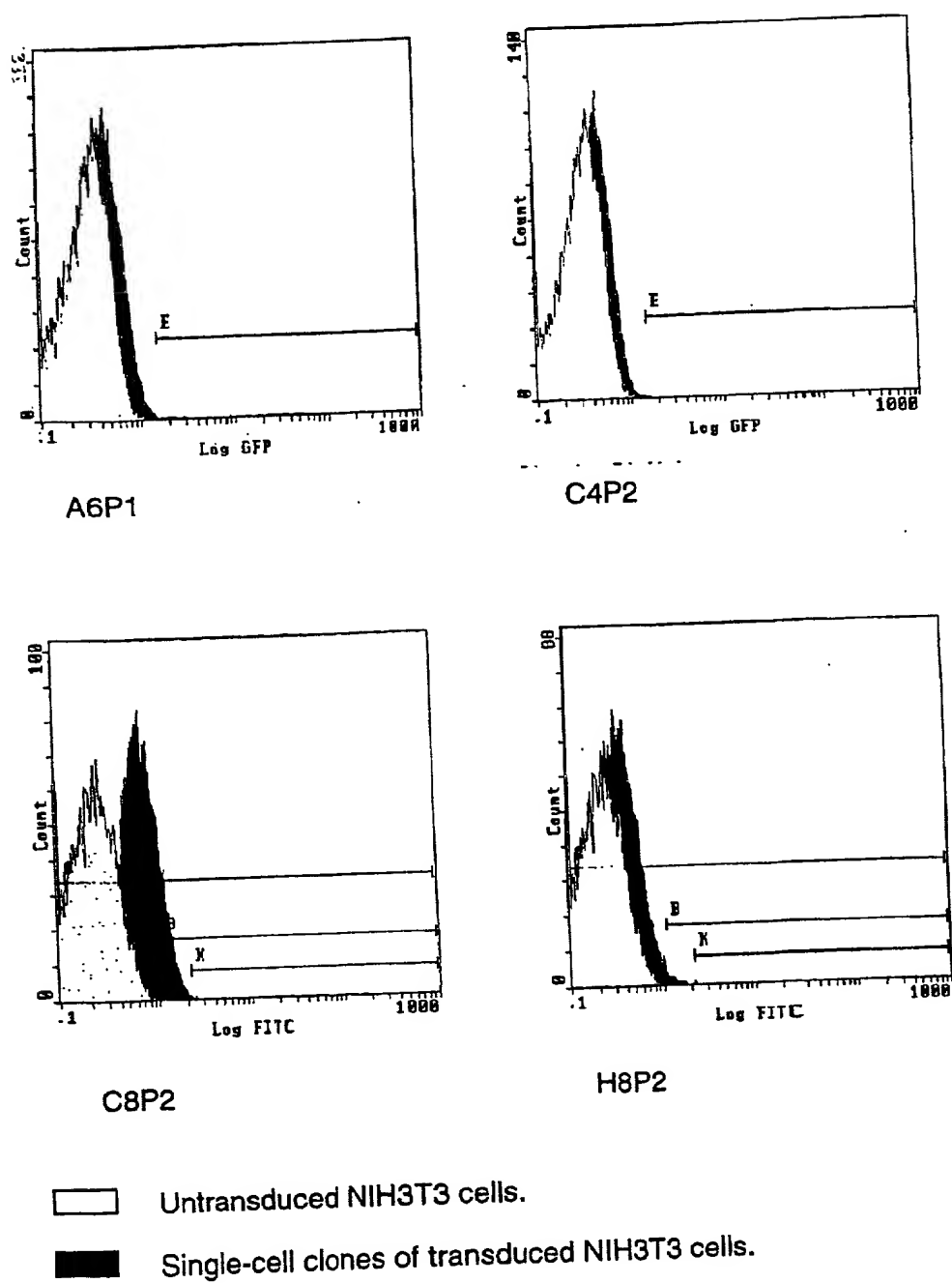


FIGURE 12

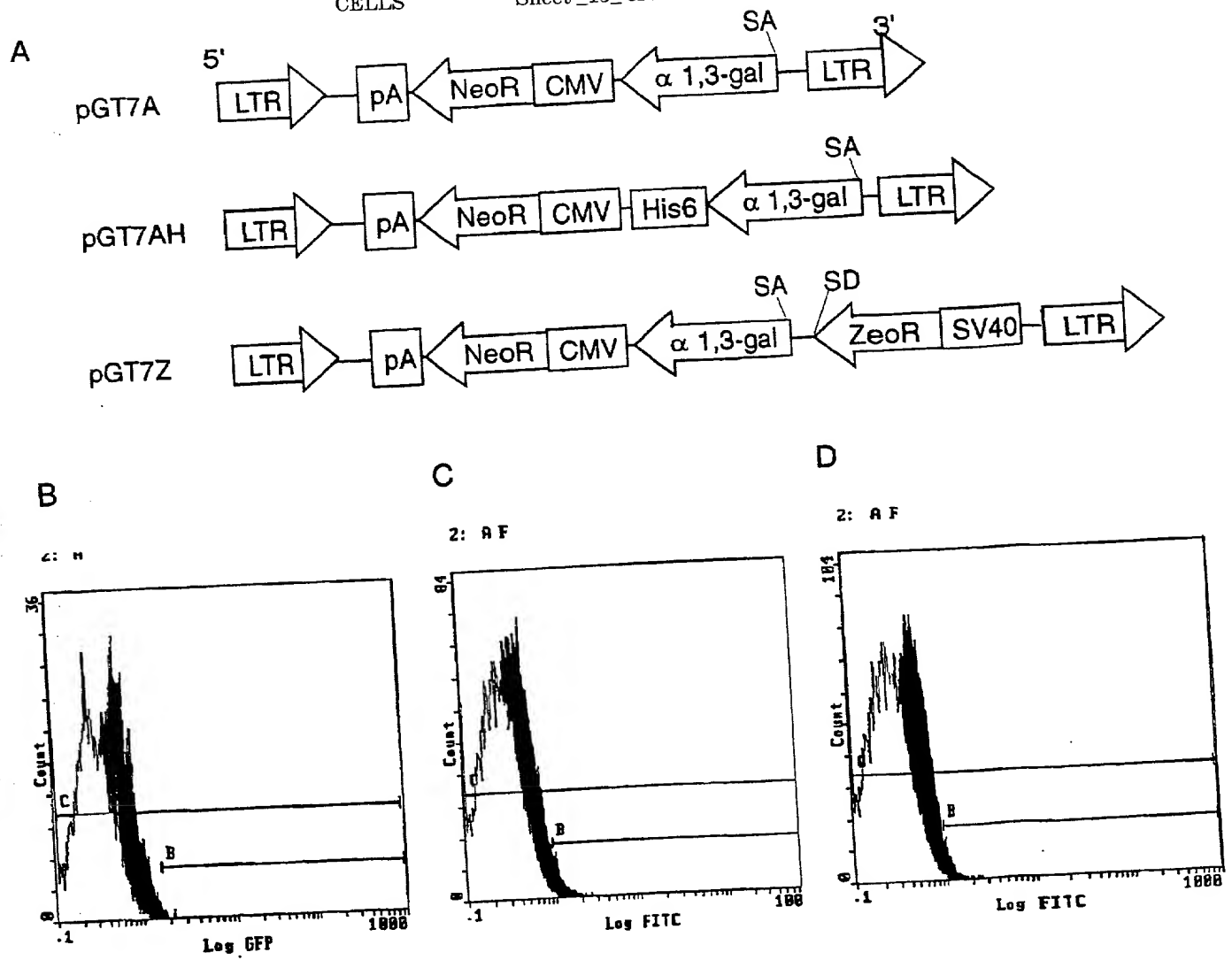


FIGURE 13

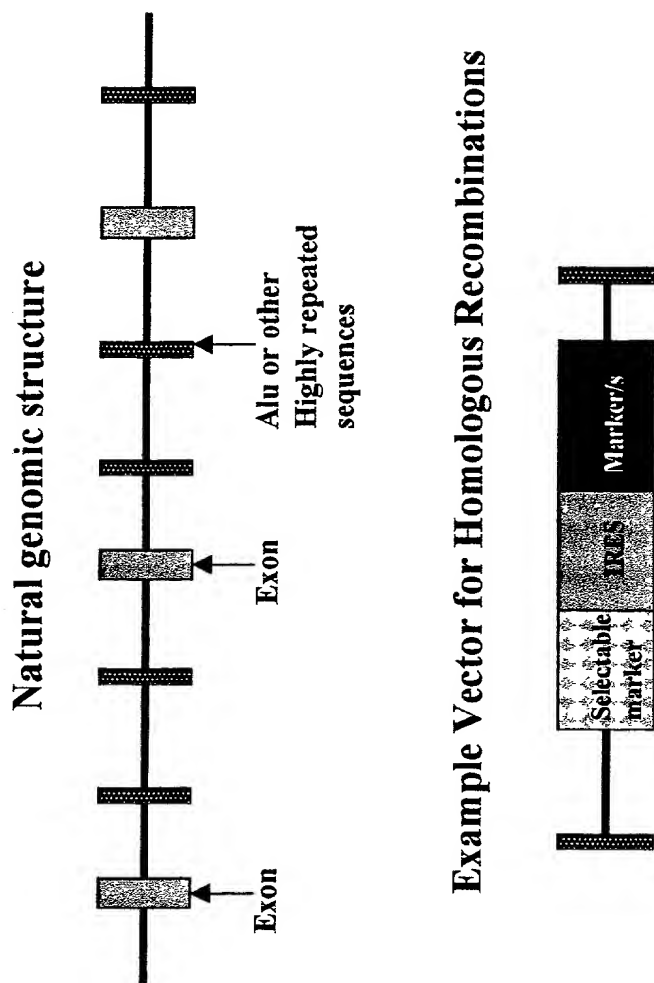


FIGURE 14

A diagram showing a linear sequence of four exons, labeled Exon1, Exon2, Exon3, and Exon4, connected by lines. Each exon is represented by a shaded rectangular box.

The diagram illustrates a genomic region with four exons, labeled Exon1, Exon2, Exon3, and Exon4, connected by lines. Exon3 is divided into two parts by a checkered line, with the left part labeled 'Marker's'.

FIGURE 15

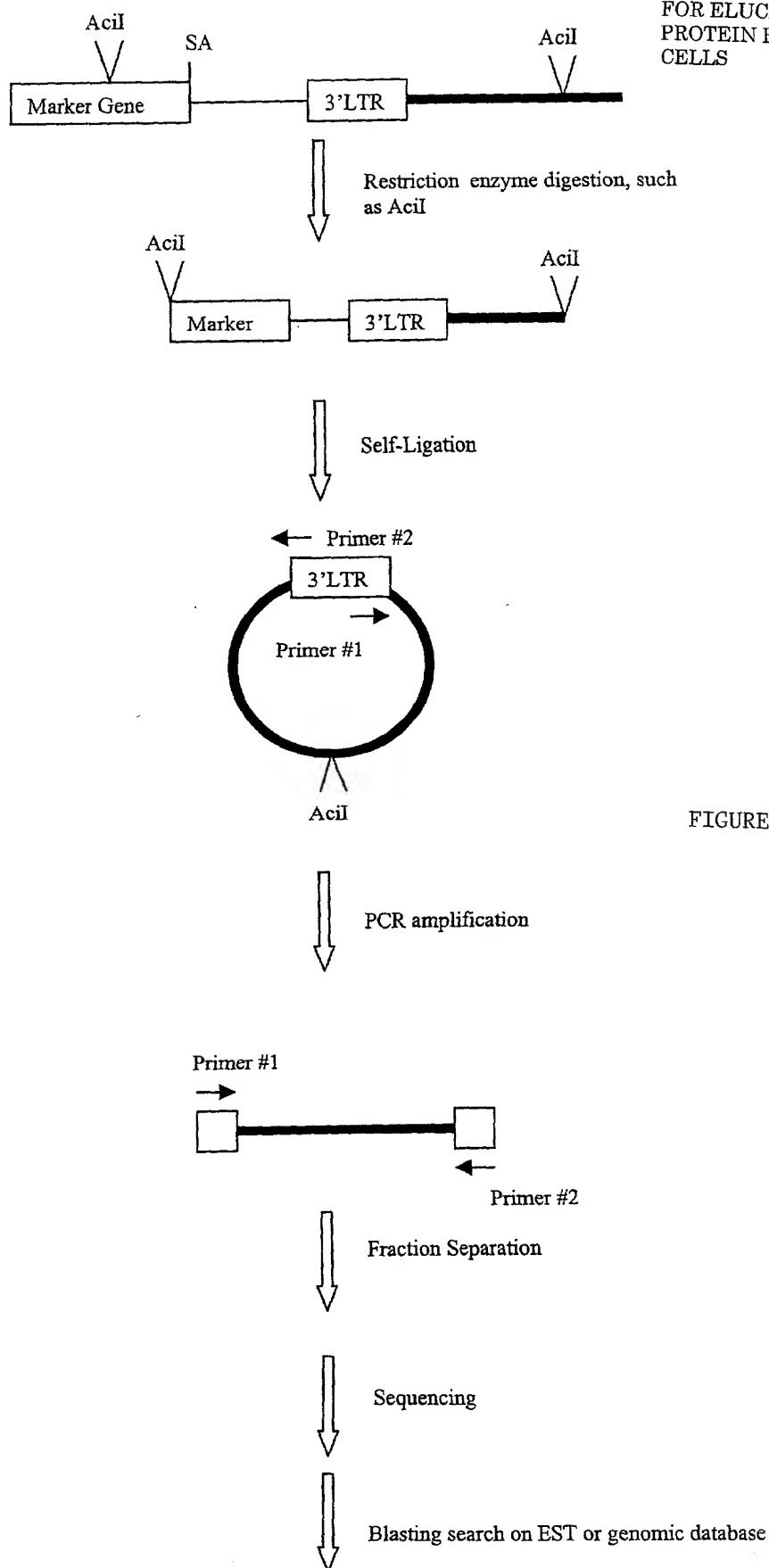


FIGURE 16

Serial Analysis of Viral Integration (SAVI)

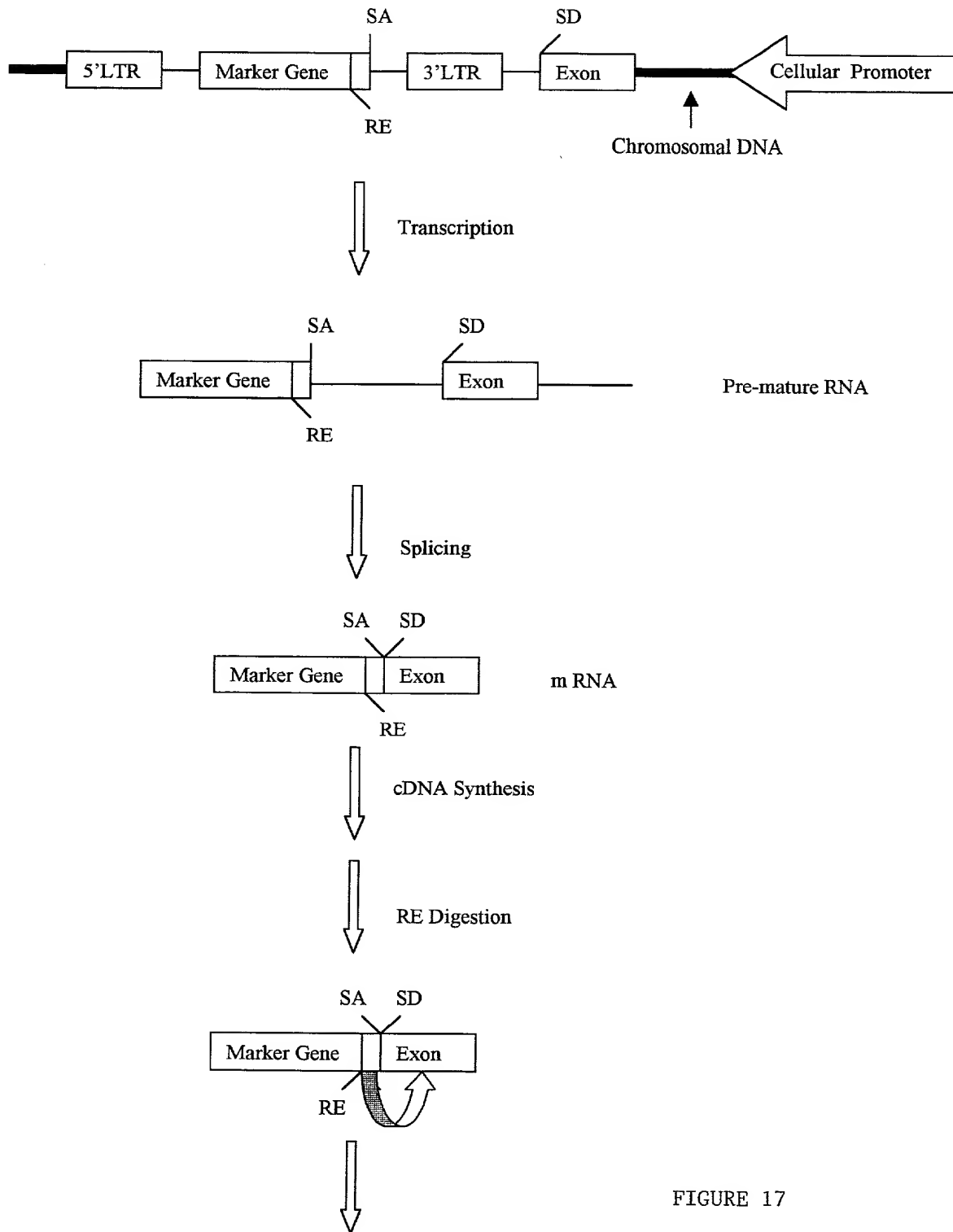


FIGURE 17

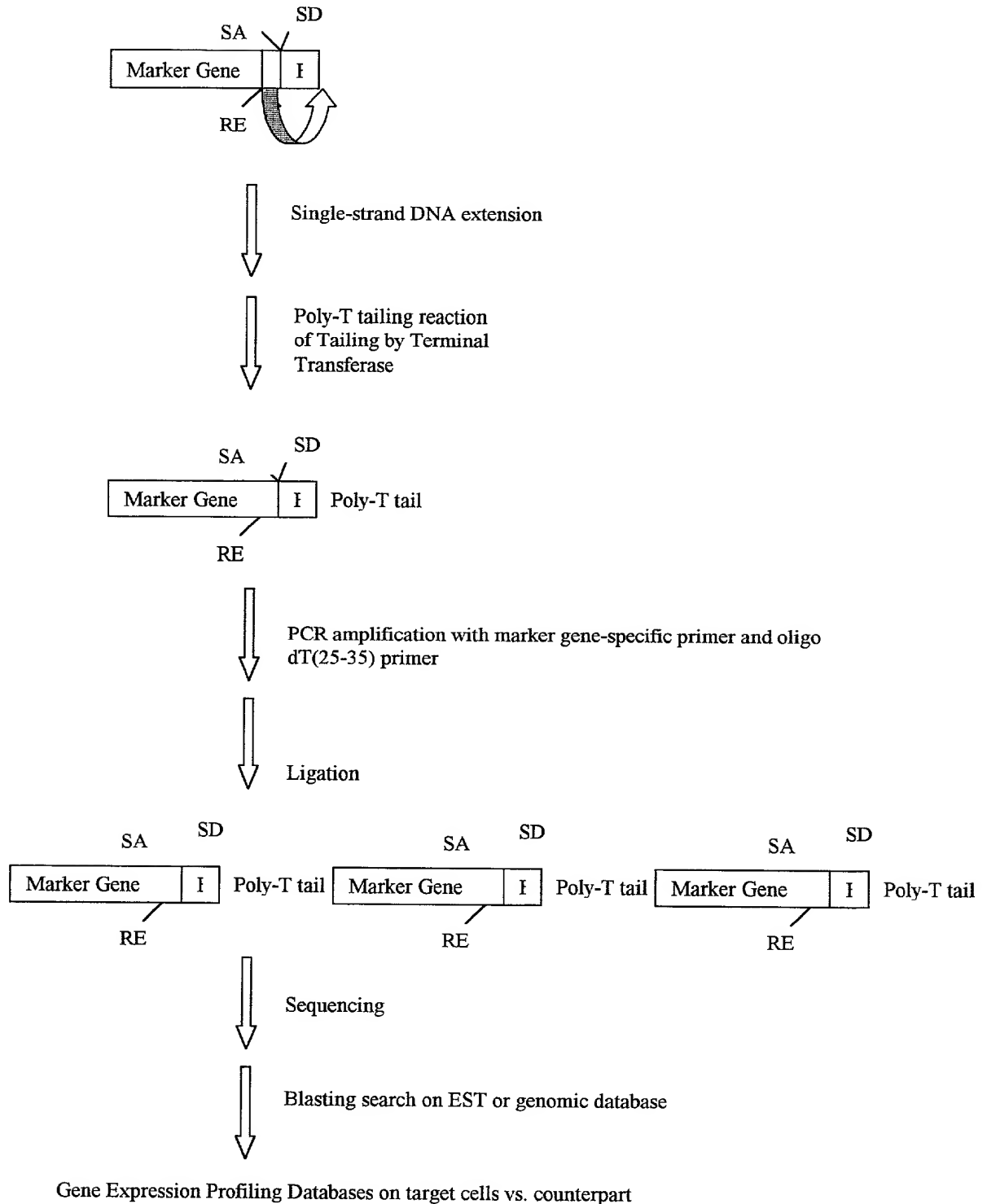


FIGURE 17 (cont.)

FIGURE 18

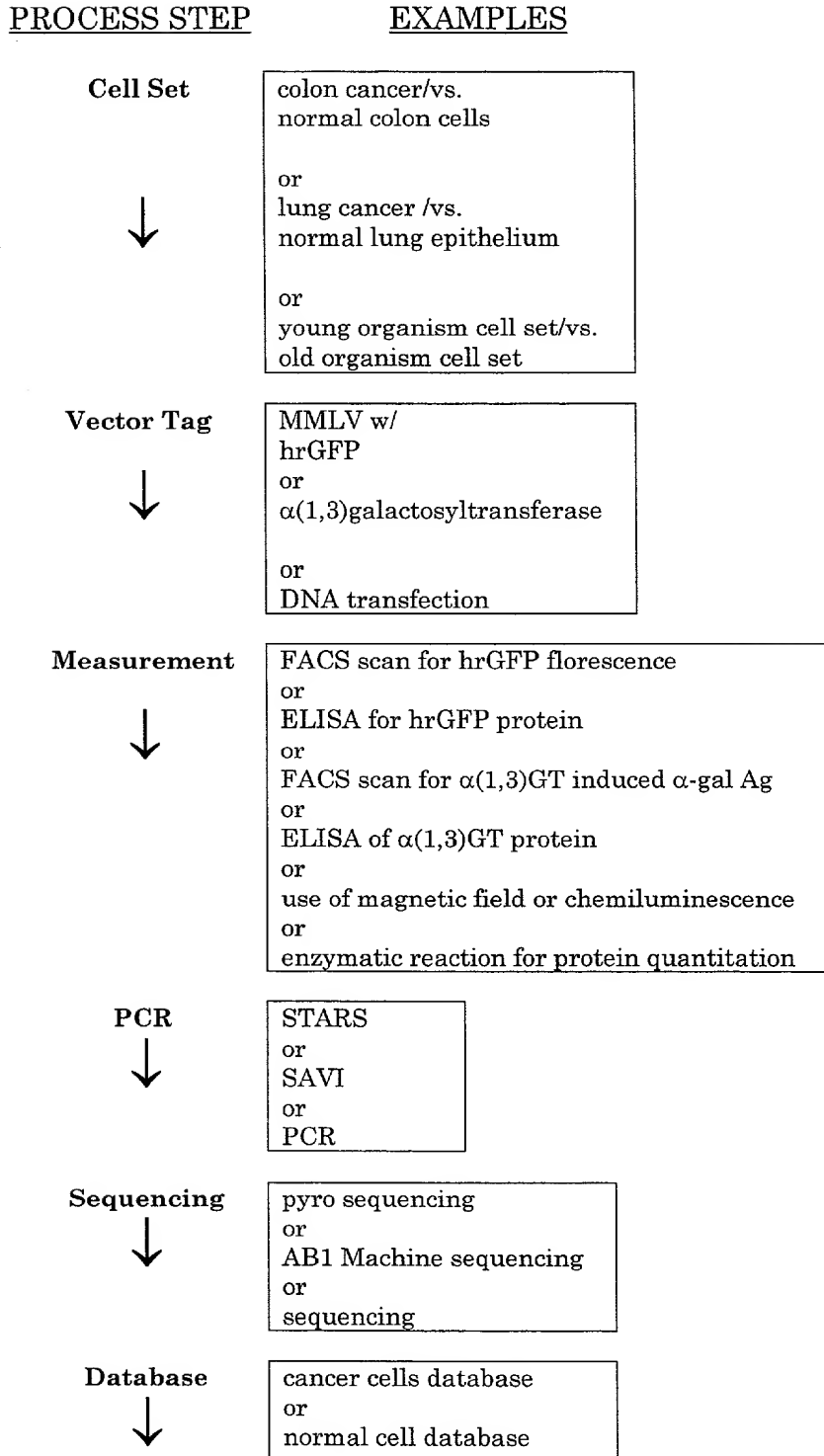


FIGURE 18 (cont.)

PROCESS STEP

EXAMPLES

Search Process



Parallel BLAST search EST
 or
 Search Genome database full sequence to define intron/exon
 or
 Alternative splicing database

**Comparative
Proteonomics**



Compare colon cancer cell to normal colon epithelium
 or
 Compare lung cancer cell to normal lung cell

**Pathway
Analysis**



multigene co-variant
 or
 Specific cell circuit analysis e.g. cell cycle

**Target
Validation/
Diagnostics**



Monoclonal kb diagnostics Northern analysis, Western analysis
 or
 DNA assay/gene chip comparison
 or
 SNP Associations
 or
 Yeast 2-hybrid fishing for protein partner

**Drug
Development**

monoclonal Antibody treatment
 or
 small molecule library search and/or
 treatment
 or
 gene therapy
 or
 anti-sense
 or
 Ribozyme
 or
 any other conventional
 pharmaceutical drug development

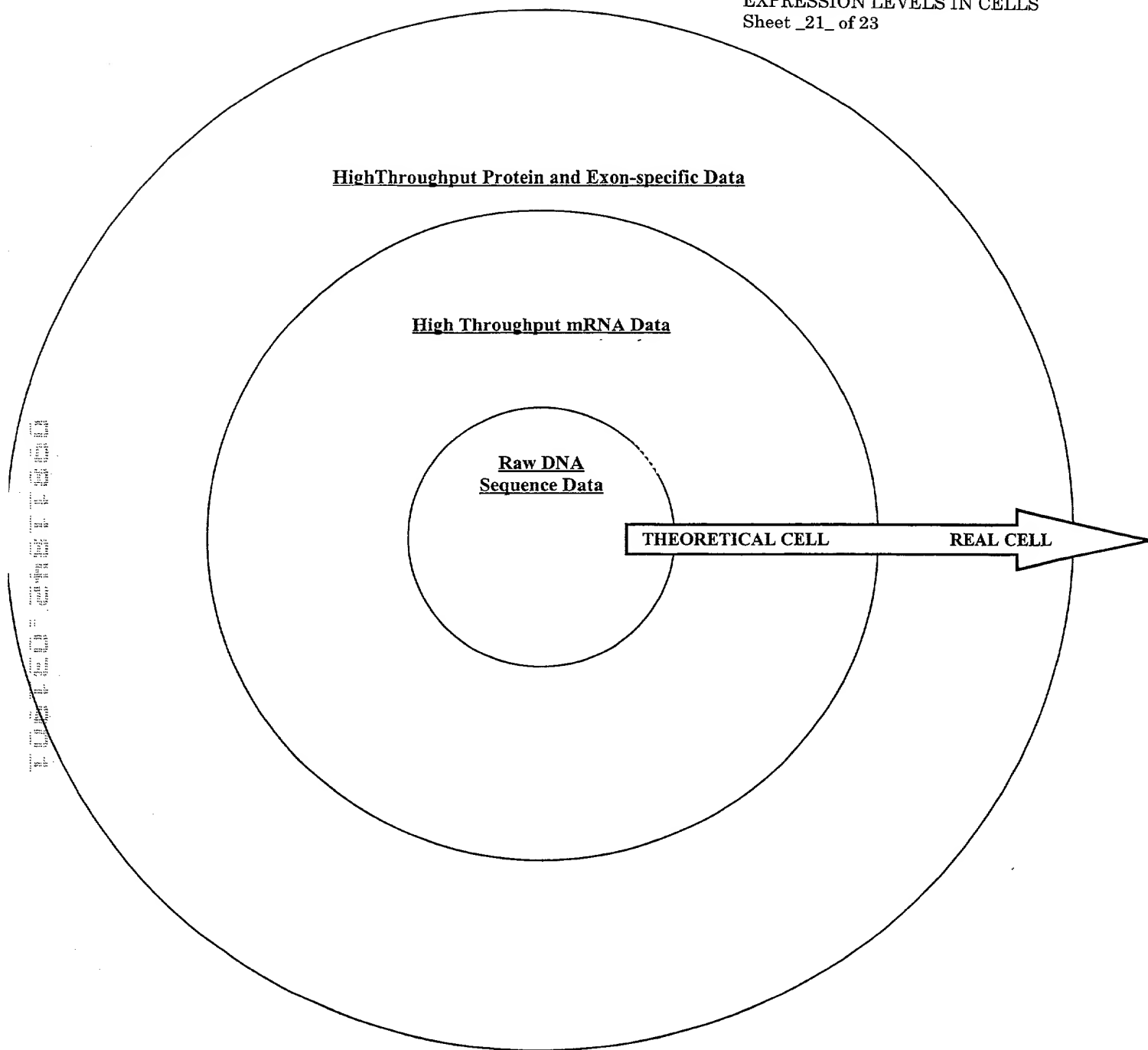


FIGURE 19

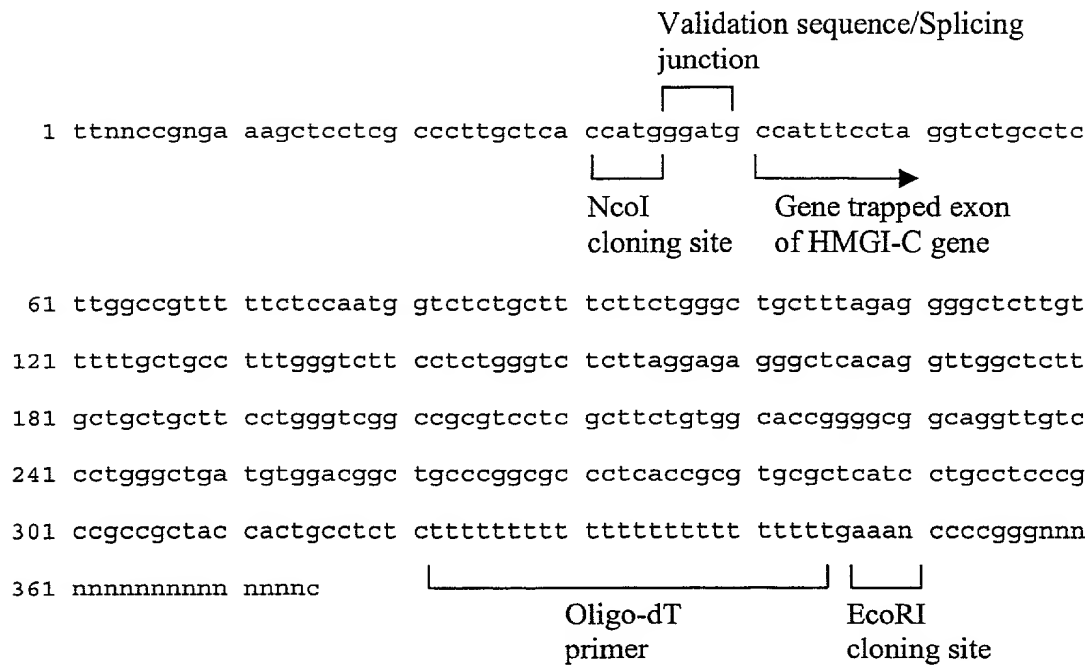


FIGURE 20

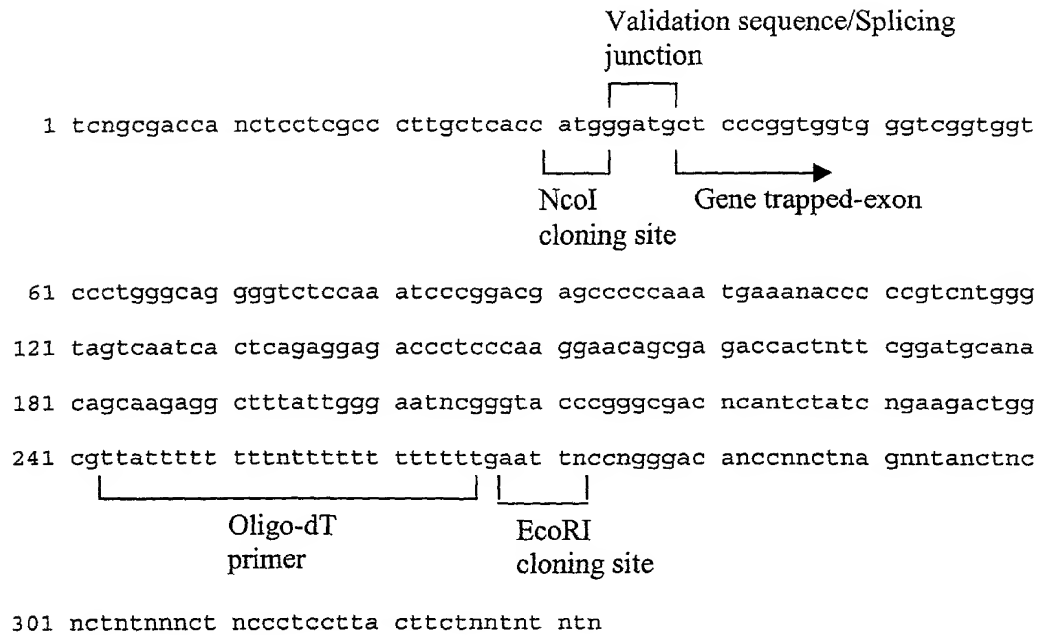


FIGURE 21